

Claim 5. (Previously Presented) The composition of claim 1, further including a source of calcium ions.

Claim 6. (Canceled)

Claim 7. (Previously Presented) The composition of claim 1, wherein the ascorbyl phosphate is selected from the group consisting of ascorbyl-2-monophosphate, ascorbyl-2-diphosphate, ascorbyl-2-triphosphate, ascorbyl-2-polyphosphate, and combinations thereof.

Claim 8-10. (Canceled)

Claim 11. (Previously Presented) The composition of claim 1, wherein the tartar control agent comprises a calcium chelating agent.

Claim 12. (Previously Presented) The composition of claim 11, wherein the calcium chelating agent is selected from the group consisting of sodium pyrophosphate, potassium pyrophosphate, sodium tripolyphosphate, potassium tripolyphosphate, sodium polyphosphate, potassium polyphosphate, EDTA, a bisphosphonate, citric acid, and gluconic acid.

Claim 13. (Canceled)

Claim 14. (Canceled)

Claim 15. (Canceled)

Claim 16. (Previously Presented) The composition of claim 1, wherein the pH of the composition is about 8.86.

Claim 17. (Previously Presented) The composition of claim 1, wherein the carrier is in a dosage form selected from the group consisting of a toothpaste, gel, mouthwash, rinse, chewing gum, lozenge, floss, interdental stimulating stick, denture adhesive, buccal patch, tooth balm, dental tray-administered gel or paste, spray, chewable object, food or feed coating, topical dressing, and tooth varnish.

Claim 18. (Previously Presented) The composition of claim 1, wherein the carrier is selected from the group consisting of a water-soluble fluid, water-soluble solid, non-water soluble fluid, non-water soluble solid, humectant, thickener, surfactant, sweetener, flavorant, colorant, abrasive, stabilizer, polymeric film-forming agent, and gum base.

Claim 19. (Previously Presented) The composition of claim 18, wherein the water-soluble fluid is selected from the group consisting of water, glycerin, propylene glycol, polyethylene glycol, butylene glycol, ethyl alcohol, and mixtures thereof.

Claim 20. (Previously Presented) The composition of claim 18, wherein the water-soluble solid is selected from the group consisting of sorbitol, xylitol, maltitol, mannitol, other polyhydric alcohols, polyethylene glycol, and mixtures thereof.

Claim 21. (Previously Presented) The composition of claim 18, wherein the non-water soluble fluid is selected from the group consisting of mineral oil, vegetable oil, natural or synthetically derived fluid ester, and mixtures thereof.

Claim 22. (Previously Presented) The composition of claim 18, wherein the non-water soluble solid is selected from the group consisting of petrolatum, wax, polybutylene, a low molecular weight waxy polymer, and mixtures thereof.

Claim 23. (Previously Presented) The composition of claim 18, wherein the humectant is selected from the group consisting of glycerin, propylene glycol, polyethylene glycol, butylene glycol, sorbitol, xylitol, maltitol, mannitol, other polyhydric alcohol, and mixtures thereof.

Claim 24. (Previously Presented) The composition of claim 18, wherein the thickener is selected from the group consisting of carboxypolymethylene, acrylate polymer and copolymer, carboxymethylcellulose, hydroxypropyl cellulose, hydroxyethyl cellulose, xanthan gum, poly(maleic anhydride/methyl vinyl ether), poly(vinyl pyrrolidone), vinyl pyrrolidone copolymers, poly(vinyl acetate), vinyl acetate copolymer, hydrated silica, fumed silica, magnesium aluminum silicate, and salts and mixtures thereof.

Claim 25. (Previously Presented) The composition of claim 18, wherein the surfactant is selected from the group consisting of sodium lauryl sulfate, sodium lauroyl sarcosinate, sodium methyl cocoyl taurate, sodium dodecyl benzenesulfonate, sodium lauryl sulfoacetate, poloxamer, polyoxyethylene

sorbitan ester, fatty alcohol ethoxylate, a polyethylene oxide condensate of alkyl phenol, cocoamidopropylbetaine, and mixtures thereof.

Claim 26. (Previously Presented) The composition of claim 18, wherein the sweetener is selected from the group consisting of a sugar, a sugar alcohol, saccharin, potassium acesulfame, aspartame, sucralose, and mixtures thereof.

Claim 27. (Previously Presented) The composition of claim 18, wherein the flavorant is selected from the group consisting of oil of wintergreen, oil of peppermint, oil of spearmint, methyl salicylate, menthol, thymol, anethole, oil of clove, eucalyptol, eugenol, oil of cinnamon, vanillin, and mixtures thereof.

Claim 28. (Previously Presented) The composition of claim 18, wherein the colorant is selected from the group consisting of an orally acceptable FD&C and D&C dye, FD&C and D&C lake, zinc oxide, titanium dioxide, natural and synthetic colorant, and mixtures thereof.

Claim 29. (Previously Presented) The composition of claim 18, wherein the abrasive is selected from the group consisting of silica, dicalcium phosphate dihydrate, dicalcium phosphate anhydrous, hydrated alumina, insoluble sodium polymetaphosphate, calcium carbonate, calcium pyrophosphate, tricalcium phosphate, and mixtures thereof.

Claim 30. (Previously Presented) The composition of claim 18, wherein the stabilizer comprises a chelating agent selected from the group consisting of EDTA, a bisphosphonate, citric acid, and gluconic acid.

Claim 31. (Previously Presented) The composition of claim 18, wherein the stabilizer comprises a preservative selected from the group consisting of benzoic acid and its salts, methyl

Claim 32. (Previously Presented) The composition of claim 1, further comprising an auxiliary active ingredient selected from the group consisting of an anticaries agent, an antiplaque agent, an antimicrobial agent, an antigingivitis agent, a desensitizing agent, and combinations thereof.

Claim 33. (Previously Presented) The composition of claim 32, wherein the anticaries agent comprises a fluoride containing compound.

Claim 34. (Previously Presented) The composition of claim 33, wherein the fluoride containing compound is selected from the group consisting of sodium fluoride, sodium monofluorophosphate, stannous fluoride, and an amine fluoride.

Claim 35. (Previously Presented) The composition of claim 32, wherein the anticaries agent comprises from about 0.1% to about 4% by weight of the composition or from about 0.2% by weight to about 0.8% by weight of the composition.

Claim 36. (Canceled)

Claim 37. (Previously Presented) The composition of claim 32, wherein the antimicrobial agent is selected from the group consisting of triclosan, chlorhexidine and its salts, cetylpyridinium chloride, and an essential oil.

Claim 38. (Previously Presented) The composition of claim 37, wherein the essential oil is selected from the group consisting of menthol, eucalyptol, thymol and methyl salicylate.

Claim 39. (Previously Presented) The composition of claim 32, wherein the antimicrobial agent comprises from about 0.01% to about 2% by weight of the composition or from about 0.1% to about 1% by weight of the composition.

Claim 40. (Canceled)

Claim 41. (Previously Presented) The composition of claim 32, wherein the desensitizing agent is selected from the group consisting of potassium nitrate, potassium citrate, and strontium chloride hexahydrate.

Claim 42. (Previously Presented) The composition of claim 32, wherein the desensitizing agent comprises from about 0.1% to about 10% by weight of the composition.

Claim 43. (Previously Presented) The composition of claim 32, wherein the desensitizing agent comprises potassium nitrate in an amount of from about 3% to about 6% by weight of the composition or in an amount of about 5% by weight of the composition.

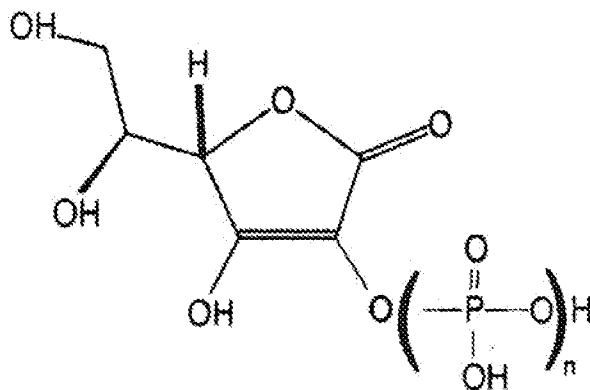
Claim 44. (Canceled)

Claim 45. (Previously Presented) The composition of claim 1, wherein n is 1.

Claim 46. (Previously Presented) The oral care composition of claim 1 wherein n is between 2 and 10.

Claim 47. (Canceled) A method for reducing tooth sensitivity comprising:
contacting a tooth surface or tooth surfaces with an oral care composition comprising

- (a) an orally acceptable carrier; and
- (b) an ascorbyl-2-phosphate compound having the following structure, or a sodium or potassium salt thereof,



wherein n is between 1 and 10.

Claim 48. (Canceled) The method of claim 47 wherein the oral care composition contacts the tooth or tooth surfaces for 5 to 60 minutes.

Claim 49. (Canceled) The method of claim 47 further comprising contacting a tooth surface or tooth surfaces with a peroxide-containing tooth whitening composition for a period of time in order to effect tooth whitening prior to contacting with an oral care composition.

Claim 50. (Canceled) The method of claim 49 wherein the oral care composition contacts the tooth or tooth surfaces for 5 to 60 minutes.

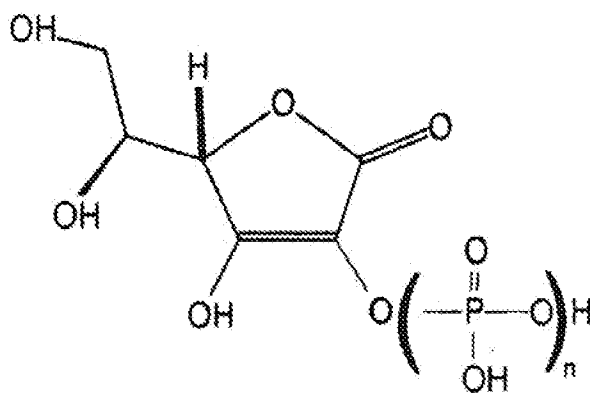
Claim 51. (Canceled) A method for counteracting tooth decay or assisting in the regenerative process of periodontal tissues comprising:

contacting a tooth surfaces or tooth surfaces with an oral care composition comprising

- (a) an orally acceptable carrier; and
- (b) an ascorbyl-2-phosphate compound having the following structure,

or a

sodium or potassium salt thereof,



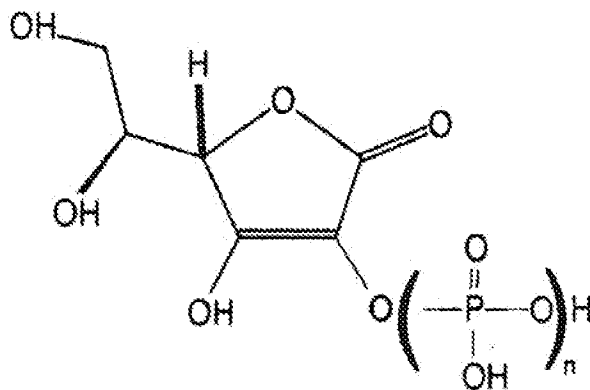
wherein n is between 1 and 10.

Claim 52. (Canceled) The method of claim 51 wherein the oral care composition contacts the tooth or tooth surfaces for 5 to 60 minutes.

Claim 53. (Canceled) A method for the prevention of tooth stain accumulation comprising:

contacting a tooth surfaces or tooth surfaces with an oral care composition comprising

- (a) an orally acceptable carrier; and
- (b) an ascorbyl-2-phosphate compound having the following structure, or a sodium or potassium salt thereof,



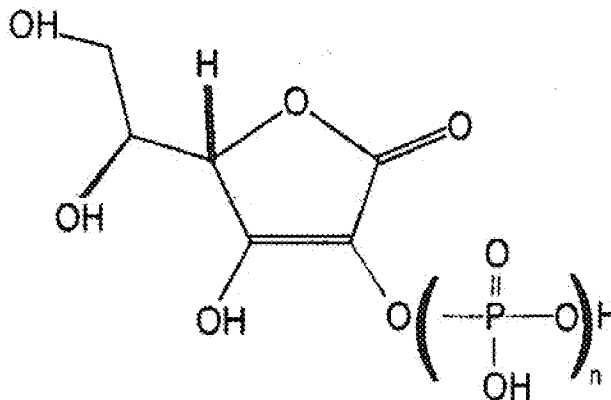
wherein n is between 1 and 10.

Claim 54. (Canceled) The method of claim 51 wherein the oral care composition contacts the tooth or tooth surfaces for 5 to 60 minutes.

Claim 55. (Previously Presented) An oral care composition comprising

- (a) an orally acceptable carrier;

(b) an ascorbyl-2-phosphate compound having the following structure, or a sodium, potassium, or calcium salt thereof,



wherein n is between 1 and 10;

- (c) a pyrophosphate, tripolyphosphate, or polyphosphate tartar control agent;
and
(d) an ingredient promoting the adherence of the composition to the tooth or tissue.

Claim 56. (Previously Presented) The composition of claim 55 further comprising an auxiliary active ingredient selected from the group consisting of an anticaries agent, an antiplaque agent, an antimicrobial agent, an antigingivitis agent, a desensitizing agent, and combinations thereof.

Claim 57. (Previously Presented) The composition of claim 55 wherein the ascorbyl phosphate is selected from the group consisting of ascorbyl-2-monophosphate, ascorbyl-2-diphosphate, ascorbyl-2-triphosphate, ascorbyl-2-polyphosphate, and combinations thereof.

Claim 58 (Previously Presented) The composition of claim 55 wherein the tartar control agent comprises a calcium chelating agent.

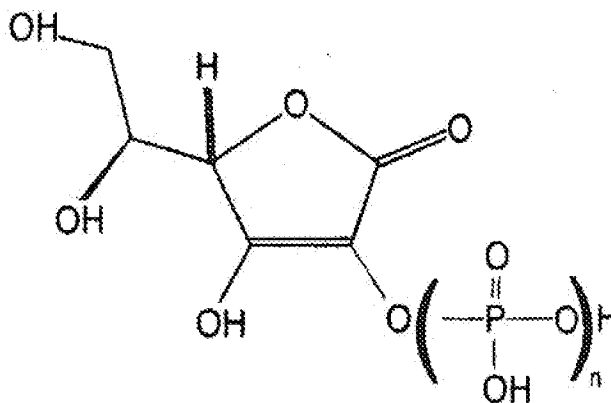
Claim 59. (Previously Presented) The composition of claim 58 wherein the calcium chelating agent is selected from the group consisting of sodium pyrophosphate, potassium pyrophosphate, sodium tripolyphosphate, potassium tripolyphosphate, sodium polyphosphate, potassium polyphosphate, EDTA, a bisphosphonate, citric acid, and gluconic acid.

Claim 60. (Previously Presented) The composition of claim 55 wherein said tartar control agent comprises from about 0.1% to about 10% by weight of the composition

Claim 61. (Previously Presented) A curable composition comprising

- (a) an orally acceptable carrier;
- (b) an ascorbyl-2-phosphate compound having the following structure,

or a sodium or potassium salt thereof,



wherein n is between 1 and 10; and

(c) an ingredient promoting the adherence of the composition to the tooth or tissue;
wherein said composition is cured to form a restorative or temporary cement.

Claim 62. (Previously Presented) The composition of claim 61 further comprising a pyrophosphate, tripolyphosphate, or polyphosphate tartar control agent.

Claim 63. (Previously Presented) The composition of claim 60 further comprising a source of calcium ions.